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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/026,938	12/27/2001	Hiroki Takeuchi	046103-5011	7305	
9629	7590 06/03/2005		EXAMINER		
MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW			SELLERS, ROBERT E		
	ON, DC 20004		ART UNIT .	PAPER NUMBER	
	•		1712		

DATE MAILED: 06/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			<u> </u>			
	Application No.	Applicant(s)				
	10/026,938	TAKEUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Robert Sellers	1712				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with t	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply to within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS. cause the application to become ABAND	be timely filed  ) days will be considered timely, from the mailing date of this communic. ONED (35 U.S.C. & 133)	ation.			
Status						
1) Responsive to communication(s) filed on 27 Ap	oril 2005.					
	action is non-final.					
3) Since this application is in condition for allowar	_					
Disposition of Claims						
4) ☐ Claim(s) 1,3,4,6-11 and 15-18 is/are pending in 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1, 3, 4, 6-11 and 15-18 are subject to	vn from consideration.	uirement.	·			
Application Papers						
9) The specification is objected to by the Examine	r.					
	D) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Of	fice Action or form PTO-152	2.			
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign     a) ☐ All b) ☐ Some * c) ☐ None of:     1. ☐ Certified copies of the priority documents     2. ☐ Certified copies of the priority documents     3. ☐ Copies of the certified copies of the prior application from the International Bureau	s have been received. s have been received in Appli ity documents have been rec	cation No				
* See the attached detailed Office action for a list of		eived.				
	•					
Attachment(s)						
Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summ Paper No(s)/Ma	nary (PTO-413)				
Paper No(s)/Mail Date		nal Patent Application (PTO-152)				

Application/Control Number: 10/026,938

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1. The election with traverse of the coloring agent of claim 4 in the reply filed on April 27, 2005 is acknowledged. The traversal is on the grounds that none of the generic claims necessitates an unduly extensive and burdensome search.

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- 2. This is not found persuasive because claims 1, 6-11 and 15-18 are generic to thermosetting resins which encompass myriad species other than those of the epoxy resin denoted in claim 3. Thermosetting resins include such structurally and functionally diverse types as carboxyl- or hydroxyl-terminated polyesters (class 525, subclasses 525/437-449), amine- or carboxyl-terminated polyamides (class 525, subclasses 420-436), polyurethanes (class 525, subclasses 453-460), phenolic resins (class 525, subclasses 480-508), cyanate esters and bismaleimide which are separately classifiable throughout various subclasses within class 525. Even the particular kinds of epoxy resins of claim 3 are separately classifiable. The novolak epoxy resins fall within class 525, subclass 480, and the bisphenol or naphthalene epoxy resins are encompassed by class 525, subclass 523.
- 3. The various species of coloring agents defined in claim 4 are scattered throughout class 524 when the thermosetting resin is not an epoxy resin, and class 523, subclasses 454, 456, 457-460, 463 and 468 when the thermosetting resin is an epoxy resin.
- 4. The inorganic filler surface treated with a coupling agent resides in class 523, subclass 204.

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Accordingly, based on the overwhelming number of searches outlined hereinabove based on the generic claims, the standard of a burdensome search has been met.

The requirement is still deemed proper and is therefore made FINAL.

5. The election filed April 27, 2005 has been misinterpreted. As indicated in the final paragraph on page 21 of the election of species requirement mailed March 21, 2005, "[a]pplicant is required under 35 U.S.C. 121 to elect a single disclosed species within each of items a) to d) hereinabove . . . "

The election of carbon black only addresses item a). The following further elections would complete the response:

- b) A particular thermosetting resin such as the HP-4032D naphthalene epoxy resin (specification, page 23, paragraph 87, line 2) with a B-570 acid anhydride curing agent (page 24, line 2) used in Sample No. 1 of Table 1 on page 27.
- c) and d) A certain inorganic filler such as FB-5LDX silane-coupled filler (page 24, paragraph 90) of Sample No. 1 wherein:
  - i) The type of inorganic filler is identified from the crystalline silica, fused silica, alumina or silicon nitride of claim 8 and
- ii) The species of coupling agent is selected from silane-, titanate- or aluminate-based coupling agent described on page 15, lines 4-5.

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6. The species of epoxy resins set forth in claim 3 are not clearly defined by use of the term "type" which embraces modifications or derivatives not contemplated.

The deletion of the term would avoid a potential violation of 35 U.S.C. 112, second paragraph.

The election filed on April 27, 2005 is not fully responsive to the election of species requirement mailed March 21, 2005 because of the lack of identifications of species of thermosetting resins b), inorganic fillers c) and the inorganic fillers with or without the surface treatment d). See 37 CFR 1.111. Since the above-mentioned reply appears to be *bona fide*, applicant is given **ONE (1) MONTH or THIRTY (30) DAYS** from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Sellers whose telephone number is (571) 272-1093. The examiner can normally be reached on Monday to Friday from 9:30 to 6:00.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

rs 6/1/2005

ROBERT E.L. SELLERS PRIMARY EXAMINER